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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	09/800,321
	Filing Date	3/5/2001
	First Named Inventor	Padigaru
	Group Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	15966-703

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1						

FOREIGN PATENT DOCUMENTS					
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
	B1				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
my	C1	Asai, H., et al. "Genomic structure and transcription of a murine odorant receptor gene: differential initiation of transcription in the olfactory and testicular cells." <u>Biochem Biophys Res Commun</u> 221(2): 240-7 (1996).
	C2	Ben-Arie, et al., 1998 Direct Submission. GenBank Accession Number: AF065860
	C3	Ben-Arie, N., D. Lancet, et al. "Olfactory receptor gene cluster on human chromosome 17: possible duplication of an ancestral receptor repertoire." <u>Hum Mol Genet</u> 3(2): 229-35 (1994).
	C4	Branscomb, et al., "Evolution of odorant receptors expressed in mammalian testes." <u>Genetics</u> 156 (2), 785-797. GenBank Accession Number: AAG21323 (2000).
	C5	Branscomb, et al., "Evolution of odorant receptors expressed in mammalian testes." <u>Genetics</u> 156 (2), 785-797. GenBank Accession Number: AF271050 (2000).
	C6	Branscomb, et al., "Evolution of odorant receptors expressed in mammalian testes." <u>Genetics</u> 156 (2), 785-797. GenBank Accession Number: AAG21324 (2000).
	C7	Buettner, et al., "Organization and evolution of olfactory receptor genes on human chromosome 11." <u>Genomics</u> 53:56-68. GenBank Accession Number: Q9UP62 (1998).
	C8	Buettner, et al., "Organization and evolution of olfactory receptor genes on human chromosome 11." <u>Genomics</u> 53 (1), 56-68. GenBank Accession Number: AAC70015 (1998).
	C9	Carninci, et al., "High-efficiency full-length cDNA cloning." <u>Methods Enzymol.</u> 303, 19-44. GenBank Accession Number: AK015036 (1999).
	C10	Carninci, et al., "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes." <u>Genome Res.</u> 10 (10), 1617-1630. GenBank Accession Number: BAB29684 (2000).
	C11	Chio, et al., "A second molecular form of D2 dopamine receptor in rat and bovine caudate nucleus." <u>Nature</u> 343 (6255), 266-269. GenBank Accession Number: P20288 (1990).
	C12	Chio, et al., "A second molecular form of D2 dopamine receptor in rat and bovine caudate nucleus." <u>Nature</u> 343 (6255), 266-269 (1990).
	C13	Drutel, et al., "Cloning of OL1, a putative olfactory receptor and its expression in the developing rat heart." <u>Recept. Channels</u> 3 (1), 33-40. GenBank Accession Number: NP_068632 (1995).
	C14	Giorgi, et al., 1999 Direct Submission. GenBank Accession Number: AAF40259
	C15	Issel-Tarver, L. and J. Rine "Organization and expression of canine olfactory receptor genes." <u>Proc Natl Acad Sci U S A</u> 93(20): 10897-902 (1996).

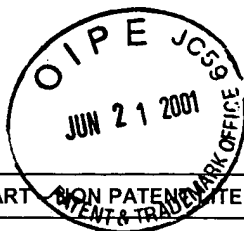
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
ny	C16	Kawarabayasi, et al., "Complete genome sequence of an aerobic hyper-thermophilic crenarchaeon, Aeropyrum pernix." DNA Res. 6 (2), 83-101. GenBank Accession Number: BAA81626 (1999).
	C17	Krautwurst, D., et al. "Identification of ligands for olfactory receptors by functional expression of a receptor library." Cell 95(7): 917-26 (1998).
	C18	Krautwurst, et al., "Identification of ligands for olfactory receptors by functional expression of a receptor library." Cell 95 (7), 917-926. GenBank Accession Number: AAD13314 (1998).
	C19	Leibovici, et al., "Avian olfactory receptors: differentiation of olfactory neurons under normal and experimental conditions." Dev. Biol. 175 (1), 118-131. GenBank Accession Number: CAA64370 (1996).
	C20	Leibovici, et al., "Avian olfactory receptors: differentiation of olfactory neurons under normal and experimental conditions." Dev. Biol. 175 (1), 118-131. GenBank Accession Number: CAA64368 (1996).
	C21	Leibovici, M. 1996 Direct Submission. GenBank Accession Number: X94742
	C22	Malnic, B., et al. "Combinatorial receptor codes for odors." Cell 96(5): 713-23 (1999).
	C23	Metzger, et al., "Expression of the mouse and rat mas proto-oncogene in the brain and peripheral tissues." FEBS Lett. 357 (1), 27-32. GenBank Accession Number: NP_032578 (1995).
	C24	Monnot, et al., "Cloning and functional characterization of a novel mas-related gene, modulating intracellular angiotensin II actions." Mol. Endocrinol. 5 (10), 1477-1487. GenBank Accession Number: P35410 (1991).
	C25	Online Mendelian Inheritance in Man (OMIM) entry # 164342
	C26	Parmentier, M., et al. "Expression of members of the putative olfactory receptor gene family in mammalian germ cells." Nature 355(6359): 453-5 (1992).
	C27	Raming, et al., "Cloning and expression of odorant receptors." Nature 361 (6410), 353-356. GenBank Accession Number: S29710 (1993).
	C28	Rouquier, et al., "The olfactory receptor gene repertoire in primates and mouse: evidence for reduction of the functional fraction in primates." Proc. Natl. Acad. Sci. U.S.A. 97 (6), 2870-2874. GenBank Accession Number: AF127840 (2000).
	C29	Rouquier, S., et al. "A gene recently inactivated in human defines a new olfactory receptor family in mammals." Hum Mol Genet 7(9): 1337-45 (1998).
	C30	Stuart, et al., "Molecular cloning and characterization of SEEEG-1: selectively expressed in embryonic epithelia gene-1." Unpublished. GenBank Accession Number: NP_067373 (2001).
	C31	Thomas, M. B., et al. "Chemoreceptors expressed in taste, olfactory and male reproductive tissues." Gene 178(1-2): 1-5 (1996).
	C32	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: NP_065261 (1999).
	C33	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: NP_067343 (1999).
	C34	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: AB030895 (1999).
	C35	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: BAA86127 (1999).
	C36	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: AB030896 (1999).
	C37	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: NP_065260 (1999).
	C38	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: BAA86125 (1999).
	C39	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: AB030894 (1999).

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
m7	C40	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: BAA86126 (1999).
	C41	Tsuboi, et al., "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." J. Neurosci. GenBank Accession Number: AB030895 (1999).
	C42	Vanderhaeghen, P., et al. "Specific repertoire of olfactory receptor genes in the male germ cells of several mammalian species." <i>Genomics</i> 39(3): 239-46 (1997).
	C43	Walensky, L. D., et al. "Two novel odorant receptor families expressed in spermatids undergo 5'-splicing." <i>J Biol Chem</i> 273(16): 9378-87 (1998).
	C44	Wild, A. 1997 Direct Submission. GenBank Accession Number: CAB11427
	C45	Wild, A. 1997 Direct Submission. GenBank Accession Number: Z98744
	C46	Williams, S. 2000 Direct Submission. GenBank Accession Number: AL133267
	C47	Williams, S. 2000 Direct Submission. GenBank Accession Number: CAC14158
	C48	Wittenberger, et al. 2000 Direct Submission. GenBank Accession Number: AAK01865
	C49	Wittenberger, et al., "An expressed sequence tag (est) data mining strategy succeeding in the discovery of new g-protein coupled receptors." <i>J. Mol. Biol.</i> 307 (3), 799-813. GenBank Accession Number: AF295365 (2001).
	C50	Xie, S. Y., et al. "Characterization of a cluster comprising approximately 100 odorant receptor genes in mouse." <i>Mamm Genome</i> 11(12): 1070-8 (2000).
	C51	Young, et al., "Characterization of the rat mas oncogene and its high-level expression in the hippocampus and cerebral cortex of rat brain." <i>Proc. Natl. Acad. Sci. U.S.A.</i> 85, 5339-5342. GenBank Accession Number: NP_036889 (1988).
	C52	Ziegler, et al., "Polymorphic olfactory receptor genes and HLA loci constitute extended haplotypes." <i>Major histocompatibility complex-evolution, structure, and function: 110-130; Springer-Verlag, Tokyo, Japan.</i> GenBank Accession Number: CAC20513 (2000).
	C53	Ziegler, et al., "Polymorphic olfactory receptor genes and HLA loci constitute extended haplotypes." <i>Major histocompatibility complex-evolution, structure, and function: 110-130; Springer-Verlag, Tokyo, Japan.</i> GenBank Accession Number: AJ302593 (2000).

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature	<i>Misook Y</i>	Date Considered	10-22-02
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Modified Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	09/800,321
	Filing Date	03/05/01
	First Named Inventor	Padigaru
	Group Art Unit	1645
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	15966-703 (Cura-203)

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1						

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office	Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No	
M7	B1	EP	0 867 508 A ✓	Smithkline Beecham Corporation	09/30/98		
↓	B2	WO	01/27158 ✓	Digiscents and Yeda Research and Development Co., LTD.	04/19/01		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
M7	C54 ✓	EMBL Database Accession Number: U86270 (Date created 1998).
	C55 ✓	Rouquier et al. (1998). <i>Nature Genetics</i> 18 : 243-250.
	C56 ✓	EMBL Database Accession Number: L34074 (Date created 1995).
	C57 ✓	Drutel et al. (1995). <i>Recept. Channels</i> 3 : 33-40.
	C58 ✓	EMBL Database Accession Number: AJ302593 (Date created 2001).
↓	C59 ✓	Invitation to Pay Additional Fees, mailed December 3, 2001.

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

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